MERCURY BY COLD VAPOR ATOMIC FLUORESCENCE SPECTROMETRY EPA 1631 REVISION E 2002								
Facility Name:				ID				
Assessor Name:	Analyst Name:		Ins	spec	te	-		
Relevant Aspect of Standar	ds	Method Reference	Y	N	N/A	Comments		
Records Examined: SOP Number/ Revision/ Date		Analyst:						
Sample ID: Date of Sample Prepara		ration: Date of Analysis:						
When dissolved mercury was filtered through a 0.45 µm filter		2.2 3.2						
Was a filtration blank analyzed if samples were filtered?		8.4						
Were samples collected in fluo with fluoropolymer or fluoropo		6.1.1						
Were new bottles heated to 65 use?	5-75°C in acid prior to first	6.1.2.1						
Were samples preserved with analyzed within 90 days?	either HCl or BrCl	8.5.1						
Were unpreserved and unoxic within 48 hours?	lized samples analyzed	8.5.1						
Were unpreserved and oxidize 28 days?	ed samples analyzed within	8.5.1						
Were at least three method bla analytical batch determined to contamination (less than or ed	be free from	9.1.7 9.4.4						
Were reagent blanks analyzed to be free from contamination ng/L)?		9.4.3						
Were at least three System BI "Bubbler" Blanks (≤ 0.25 ng/L) analytical batch? (Blanks that contamination of the instrume blanks are different and have one type need be included in a	analyzed with every demonstrate no nt system. These two different criteria but only	9.1.7 9.4.2						
Were field blanks shipped with a rate of 1 for every 10 sample from contamination with every	es and analyzed to be free	9.4.5.1						
Were sampling equipment bla demonstrated to be free from any given site?		9.4.6						
Notes/Comments:								

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments			
Were Bottle Blanks from each lot of bottles filled with reagent water, acidified to pH < 2, allowed to stand for 24 hours, and analyzed to be free from contamination?	9.4.7							
Were LFM and LFMD pairs analyzed with every batch at a rate of 10% of samples to be between 71 and 125% recovery?	9.1.3 9.3							
Was calibration done with a minimum of five non-zero calibration standards?	9.1.7							
Did the lowest calibration standard have a RSD ≤ 15% and a recovery of between 75 and 125%?	10.3.2.7							
For a calibration range outside of 0.5 to 100 ng/L: The difference between successive calibration points must be no greater than a factor of 10 The RSD for all points must be less than 15% The calibration factor for any point over 100 ng/L must be within ±15% of the average calibration for all the points below 100 ng/L The calibration factor for any point below 0.5 ng/L must be within 25% of the average calibration factor for all points The ML must be less than one-third the regulatory limit	10.4							
Were MDLs determined when a new analyst started work or a significant change in hardware was made?	9.2.1							
Was a CCV analyzed to be within 77 to 123% recovery at the beginning and end of each sample batch?	9.5.1							

Virginia Division of Consolidated Laboratory Services

Notes/Comments:	